```
Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Run on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OM protein -
                                                                                                                                                 õ
                                                                                                                                                                                                                                                 Pred. No. is the score greater the and is derived h
                                                                                                                                                 Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       seq length: 0
seq length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein search, using sw model
    100.0
100.0
100.0
100.0
                                                                                                                                                                                                                                               is the number of results predicted by chance to have a ster than or equal to the score of the result being printed, rived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       June
                                                                                                                                               Match
                                                                                                                                                                                                                                                                                                                                  BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-785-058-8
216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4569144 seqs, 644733110 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 RVVRVVRRVVRRVRRVVRRV......
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pending Patents AA Main:*
(gn2_6/ptodata/1/paa/US06_COMB.pep:*
:/cgn2_6/ptodata/1/paa/US07_COMB.pep:*
:/cgn2_6/ptodata/1/paa/US07_COMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GenCore version 5.1.6 Copyright (c) 1993 - 2003 Compugen Ltd
                                                                                                                                                                                                                                                                                                                     / cgn2_6/ptcdata/1/paa/US080_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US081_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US081_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US082_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US083_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US086_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US086_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US086_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US089_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US099_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US090_COMB.pep: *
/ cgn2_6/ptcdata/1/paa/US090_COMB.pep: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cgn2_6/ptodata/1/paa/US080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9, 2003, 12:34:22 ; Search time 235.064 Seconds
(without alignments)
131.654 Million cell updates/sec
                                                                                                                                               Length
    444444
PCT-US02-04432-8
PCT-US02-04812-8
1 US-09-785-058-8
1 US-09-785-059-8
4 US-10-079-075-8
PCT-US02-04432-7
                                                                                                                                               ij
                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMB. pep: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .RRVRRVVRRVVRVVRRVVRR 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4569144
              Sequence 8, Appli
                                                                                                                                             Description
    Sequence
    7,
    Appl
```

45	44	43	42	41	40	39	38	37	36	35	34	<u>ω</u>	32	31	30	29	28	27	26	25	24	23	22	21	20	19		17	16	15	14	13	12	11	10	9	œ	7
75	75	76	76	76	88	88	88	88	88	88	88	88	88	88	109	109	109	109	109	134	134	134	134	134	162	162	162	162	162	170	170	170	170	170	190	9		190
34.7	34.7	35.2	5	5				0	40.7		٥.	40.7	40.7	•	•	•	•	50.5	•	62.0	•	•	•	•	75.0	•	•	•		ω.	œ	8	8		œ	œ	88.0	88.0
28	28	256	190	183	31	31	31	31	31	24	24	24	24	24	24	24	24	24	24	36	36	36	36	36	36	36	36	36	36	48	48	48	48	48	42	42	42	42
1	1	26	26	26	24	21	21	<u>, , , , , , , , , , , , , , , , , , , </u>	۲	24	21	21	<b>-</b>	_	24	21	21	۲	μ	24	21	21	_	_	24	21	2	_	_	24	21	21	۳	۳	24	21	21	r
CT-US02-04812-	04432	-10-219-999-	-10-219-999-6023	-10-219-999-6	-10-079-075-	-09-785-059-	5-058-	-US02-04812-	04432-	-10-079-075-	-09-785-059-	5-058-	US02-04812-	-US02-04432-	-10-079-075-	-09-785-059-	09-785-058-	US02-04812-	-US02-04432-	-10-079-075-	-09-785-059-	09-785-058-	US02-04812-	-US02-04432-	-10-079-07	-09-785-059-	09-785-058-	-US02-04812-	-US02-04432-	-10-079-075	-09-785-059-	09-785-058-	US02-04812-	-US02-04432-	-10-079-075-	-09-785-059-	-09-785-05	PCT-US02-04812-7
equence 1,		equence 60229,	e 60231,	e 60230,	æ	2, Appl	e 2, Appl	equence 2	N	10, App	equence 10,	e 10, App	equence 10,	quence 10, Appl	5, Appl	equence 5, App	equence 5, Appl	equence 5,	quence 5, Appli	11, App	equence 11,	Sequence	equence 11,	ll, Appl	σ,	equence 6, Appl	Sequence (	equence 6	quence 6	_	equence 1	е -	equence 12	12,	equence 7, Appl	equence 7, App	e 7, Appl	Sequence 7, Appli

## ALIGNMENTS

RESULT 1 PCT-US02-04432-8

```
밁
                        Ş
                                                                                                                               PCT-US02-04432-8
                                                                                                                                                                                                                          APPLICANT: Ronald C. Montelaro
APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
FILE REFERENCE: A34001-PCT / 072396.0223
CURRENT APPLICATION NUMBER: PCT/US02/04432
CURRENT FILING DATE: 202-02-13
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                               Sequence 8, Application PC/TUS0204432 GENERAL INFORMATION:
                                                                              Query Match
Best Local
                                                                 Matches
                                                                                                                                                                                              LENGTH: 48
TYPE: PRT
                                                                                                                                            OTHER INFORMATION: Artificial peptide derived from HIV-1
                                                                                                                                                             ORGANISM: Artificial Sequence FEATURE:
                                                               48;
\vdash
                  Similarity
RVVRVVRRVVRRVVRRVVRVVRRVVRRVVRRVVRRVVRRVVRR
                                                               Conservative
                                                                              100.0%;
                                                               0
                                                                              Score 216; DB 1;
Pred. No. 2.7e-19;
                                                             Mismatches
                                                               <u>.</u>.
                                                                                           Length
                                                               Indels
                                                                                              48;
48
                                                             0,
                                                             Gaps
```

0

```
밁
                                                                                                                                                                                                                                                                                                                                                Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 3
US-09-785-058-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 2
PCT-US02-04812-8
                                                                                                                                                                                                                                       US-09-785-059-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-785-058-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCT-US02-04812-8
                                  SOFTWARE: FastSEQ
SEQ!ID NO 8
                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                      Sequence 8,
                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 8, Applicat GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                  APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL
FILE REFERENCE: A33577 / 072396.0217
CURRENT APPLICATION NUMBER: US/09/785,059
CURRENT FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 12
                                                                                                                                                                 APPLICANT: Ronald C. APPLICANT: Timothy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
FILE REFERENCE: A 34001 / 072396.0222
CURRENT APPLICATION NUMBER: US/09/785,058
CURRENT FILING DATE: 2001-02-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: A34001-PCT / 072396.0223
CURRENT APPLICATION NUMBER: PCT/US02/04812
CURRENT FILING DATE: 2002-02-19
NUMBER OF SEQ ID NOS: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Ronald C. APPLICANT: Timothy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ for Windows Version 3.0 BQ ID NO 8 LENGTH: 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Ronald C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Artificial peptide derived from HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: Artificial peptide derived from HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artifical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                   ENGTH: 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PPLICANT: Timothy A. Mietzner
THE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENGTH: 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               48;
                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/09785058
                                                                                                                                                                                                                    Application US/09785059
                                                                                                                                                                                                                                                                                                                                                RVVRVVRRVVRRVVRRVVRRVVRRVVRRVVRRVVRVVRRVVRR 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Application PC/TUS0204812
                                                                                                                                                                                                                                                                                                                RVVRVVRRVVRRVVRRVVRRVVRRVVRRVVRRVVRRVVRRVVRRVVRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                  Montelaro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Montelaro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Montelaro
                                                     Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 216; DB 21; 100.0%; Pred. No. 2.7e-19; ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 216; DB.1;
Pred. No. 2.7e-19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                PEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                      Length 48;
                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                    <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
```

```
Ś
밁
                                                                                                                                                                                                                                                                                                                                            RESULT 6
PCT-US02-04432-7
                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                            ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OTHER INFORUS-09-785-059-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-079-075-8
                                                                                                          PCT-US02-04432-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-079-075-8
                                                                 Best
                                                                                                                                                                                          SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                  Sequence 7, Application PC/TUS0204433 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 8, Applicat
GENERAL INFORMATION
                                                    Matches
                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                               APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
FILE REFERENCE: A34001-PCT / 072396.0223
CURRENT APPLICATION NUMBER: PCT/US02/04432
CURRENT FILING DATE: 2002-02-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ronald C. Montelaro
APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
FILE REFERENCE: A34001-A / 072396.0222
                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 12
                                                                                                                                                                                                                                                                                       APPLICANT: Ronald C. APPLICANT: Timothy i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/10/079,075
CURRENT FILING DATE: 2002-02-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE: OTHER INFORMATION: Artificial peptide derived from HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 48
TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Artifical sequence FEATURE:
                                                                                                                      OTHER INFORMATION: Artificial peptide derived
                                                                                                                                                 ORGANISM: Artificial
                                                                                                                                                                 TYPE: PRT
                                                                                                                                      FEATURE:
                                                                                                                                                                            ENGTH: 42
                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        48;
                                                    42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 Similarity 48; Conserv
                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                     RRVVRRVRRVVRRVVRRVVRRVVRRVVRRVVRVVRVVRRVVRRVVRR 48
                                                                                                                                                                                                                                                                                                                                                                                                  RVVRVVRRVVRRVVRRVVRVVRRVVRRVVRRVVRRVVRRVVRRVVRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Application US/10079075
                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Artificial peptide derived
                                                                                                                                                                                                                                                                                                     Montelaro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
                                                                 88.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
                                                                   Score 190; DB 1; Pred. No. 3.4e-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 216; I
Pred. No. 2.7
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 216; DB 24; Pred. No. 2.7e-19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                      Mismatches
                                                                   3.4e-16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 21;
2.7e-19;
                                                                                                                         from HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              from
                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                      0
                                                                              Length 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      48;
                                                                                                                                                                                                                                                                                                                                                                                                                             48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                48
                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                    <u>,,</u>
                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
```

RESULT 7

```
뭐
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ફ
                                                                                                                                                                                                                                                                                                                                                                   용
                                                                                                                                                                                                                                                                                                                                                                                                       ঠ
                                                                                                                                                                                                                                                                                     US-09-785-059-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-785-058-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-785-058-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCT-US02-04812-7
              APPLICANT: Ronald C. Montelaro
APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
PILE REFERENCE: A33577 / 072396.0217
CURRENT APPLICATION NUMBER: US/09/785,059
CURRENT FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 7
LENGTH: 42
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 12
SOPTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 7
LENGTH: 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 7, Applicat GENERAL INFORMATION:
                                                                                                                                                                                                                                        Sequence 7, Applicat
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
Matches 42; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 7, Applicat GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PILE REFERENCE: A 34001 / 072396.0222
CURRENT APPLICATION NUMBER: US/09/785,058
CURRENT FILING DATE: 2001-02-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Ronald C. Montelaro
APPLICANT: Timothy A. Mietzer
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
FILE REFERENCE: A34001-PCT / 072396.0223
CURRENT APPLICATION NUMBER: PCT/US02/04812
CURRENT APPLICATION NUMBER: PCT/US02/04812
CURRENT FLING DATE: 2002-02-19
NUMBER OF SEQ ID NOS: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL
FILE REFERENCE: A 34001 / 072396.0222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOPTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 7 LENGTH: 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Ronald C. Montelaro APPLICANT: Timothy A. Mietzne
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Artifical sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Artificial peptide derived from HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Artificial peptide derived from HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
ORGANISM: Artifical sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                            7
                                                                                                                                                                                                                                                                                                                                                                   1 RRVVRRVRRVVRRVVRRVVRRVVRRVVRRVVRRVVRR 42
                                                                                                                                                                                                                                                                                                                                                                                           RRVVRRVRRVVRRVVRVVRRVVRRVVRRVVRVVRVVRRVVRR 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Application US/09785058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Application PC/TUS0204812
                                                                                                                                                                                                                                                              Application US/09785059
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88.0%; Score 190; DB 21; 100.0%; Pred. No. 3.4e-16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88.0%; Score 190; DB 1; 100.0%; Pred. No. 3.4e-16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
```

```
; FEATURE:
; OTHER INFORMATION: Artificial peptide derived from HIV-1
US-09-785-059-7
片
                             á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: Artificial peptide derived from HIV-1 US-10-079-075-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-079-075-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
"" hes 42; Conserve
                                                                                                                              ; OTHER INFORMATION: artificial peptides derived from HIV-1
PCT-US02-04432-12
                                                                                                                                                                                                                                                                                                                                                                                                                PCT-US02-04432-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 10
                                                                                                                                                                                                                           APPLICANT: Timothy A, Mietzner
TITLE OF INVENTION: VIRUS DEIVED ANTIMICROBIAL
FILE REFERENCE: A34001-PCT / 072396.0223
CURRENT APPLICATION NUMBER: PCT/US02/04432
CURRENT FILING DATE: 2002-02-13
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 12
                                                                                                                                                                                                                                                                                                                                                                            Sequence 12, Application PC/TUS0204432 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 7, Application US/10079075 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                 Matches
                                                                              Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Ronald C. Montelaro
APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
FILE REFERENCE: A34001-A / 072396.0222
                                                                                                                                                                                                                                                                                                                                              APPLICANT: Ronald C. Montelaro APPLICANT: Timothy A. Mietzne
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/10/079,075
CURRENT FILING DATE: 2002-02-19
                                                                                                                                                           TYPE: AB
TYPE: PRT
ORGANISM: Artificial Sequence
PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 42
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42;
                  40;
                                                                              Similarity
RRVVRRVRRVVRRVVRRVVRRVVRRVVRRVVRVVRVVRRVVRR 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RRVVRRVVRRVVRRVVRRVVRRVXRRVVRRVVRVVRVVRRVVRR 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RRVVRRVRRVVRRVVRRVVRRVVRRVVRRVVRVVRVVRRVVRR 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                              78.7%;
90.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 190; DB 21; Pred. No. 3.4e-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 190; DB 2; Pred. No. 3.4e-
                                                               0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                              Score 170; DB 1;
Pred. No. 1.1e-13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>;</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                            Length 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                             <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
```

RESULT 12 PCT-US02-04812-12

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 13
US-09-785-058-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                 US-09-785-059-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: artificial peptides derived from HIV-1
US-09-785-058-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCT-US02-04812-12
                                               CURRENT APPLICATION NUMBER: US/09/785,059
CURRENT FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 12
LENGTH: 48
LENGTH: 48
                                                                                                                                                                                                                                       Sequence 12, Apprica GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 12, Application US/09785058 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 12
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 12
LENGTH: 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 12, Application PC/TUS0204812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/785,058
CURRENT FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 12
LENGTH: 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE; A34001-PCT / 072396.0223
CURRENT APPLICATION NUMBER: PCT/US02/04812
CURRENT FILING DATE: 2002-02-19
                                                                                                                                                                                                          APPLICANT: Ronald C. Montelaro APPLICANT: Timothy A. Mietzne:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
TITLE REFERENCE: A 34001 / 072396.0222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ronald C. Montelaro APPLICANT: Timothy A. Mietzne
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Artifical
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: artificial peptides derived from HIV-1
               ORGANISM: Artifical sequence
FEATURE:
                                                                                                                                                                   PPLICANT: Timothy A. Mietzner (TLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL (LE REFERENCE: A33577 / 072396.0217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PLICANT: Timothy A. Mietzner
TLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL PEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                    40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                     Application US/09785059
                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        78.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      78.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 170;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 170; DB 1;
Pred. No. 1.1e-13;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1; Length 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 21; Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
```

Search completed: June Job time: 236.064 secs

,

```
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                           S
                                                                                                                                                                                                                                                                                                                                                                                               RESULT 15
US-10-079-075-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: artificial peptides derived from HIV-1 US-09-785-059-12
                                                                                                                         OTHER INFORMATION: artificial peptides derived from HIV-1 US-10-079-075-12
                                                                           Query Match
Best Local S
                                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 12
                                                                                                                                                                                                                                                                                                                                                                Sequence 12, Applica
GENERAL INFORMATION:
                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                APPLICANT: Timothy A. Mietzner
TITLE OF INVENTION: VIRUS DERIVED ANTIMICROBIAL
FILE REFERENCE: A34001-A / 072396.0222
CURRENT APPLICATION NUMBER: US/10/079,075
CURRENT FILING DATE: 2002-02-19
                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                APPLICANT: Ronald C. Montelaro APPLICANT: Timothy A. Mietzne
                                                                                                                                                       LENGTH: 48
TYPE: PRT
ORGANISM: Artificial Sequence
PEATURE:
                                                            Local Similarity
nes 40; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity nes 40; Conserv
                             1 RVVRVVRRVVRRVVRRVVRRVVRRVVRRVVRRVVRVVRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Application US/10079075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                              Conservative
                                                                          78.7%;
90.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         78.7%;
90.9%;
                                                            Score 170; DB 24;
Pred. No. 1.1e-13;
0; Mismatches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 170; DB 21;
Pred. No. 1.1e-13;
0; Mismatches 4
                                                                                            DB 24;
                                                                                                                                                                                                                                                                                                                     PEPTIDES
                                                                                        Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 48;
                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
 44
                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                              0
```